**Achievements**

***Research outputs***

* Generated a critical mass of research data and information to guide prioritization and planning of ESA Phase II
  + Systems characterization
  + Baselines
  + Demand analysis for our technologies
  + Gender studies
  + Value chain analysis
  + Market analysis for vegetables
  + Feed Assessment (FEAST) studies
* We are generating scientific evidence or targeting different specific technologies within our Africa RISING (tested and pilot tested technologies)
  + Soil fertility management
  + Water harvesting
  + Double up legume
  + Improved forages
  + Feed chopping machines
  + Improved chicken housing
  + Erosion control in windy places using trees
  + Etc. - obtain from annual reports
* Gender disaggregated baseline data to inform technology design, testing and deployment
* Gender implications for some technologies, vegetables, cereals, feed choppers etc

*Implementation:*

* Assembled research teams
* Assembled partnerships that can deliver our outputs
* Increased expertise in Africa RISING/Expanded skill set of project staff and partners
* We have a framework that allows to identity, refine, package and scale out technologies through R4D. (a learning cycle – farmers, R4D, researchers)
* Produced some scientific publications (need to list them)

**Loose ends**

*On-going:*

* We are in the process of integrating scientific evidence from phase I into technology packages for scaling out
  + Use of micro dealers
  + Cost benefit analysis of our components and packages, shift in labor distributions and decision making, shift in markets etc.
* Develop more compressive linkages between crop-livestock diversification and human nutrition
* Develop a coherent capacity building strategy for different levels– farmers, extension agents, research, university, etc. and leverage them to building human resources sustainable intensification (stakeholder capacity building approaches).
  + Intentionally address gender concern – getting more women in agricultural research and leadership.
* Implementation of our data management plan.
* R4D platforms: Meant for priority setting, design and dissemination. How can we make them more effective, sustainable, more inclusive especially private sector?

*New area:*

* Use farm typology characterization study to inform our research targeting and technology dissemination.
* We have all the tools to test delivery model for our technology
  + Baselines
  + Typologies
  + Best bet technology packages
  + Partnerships
* What is our contribution to environmental health? Have to show this.
* We can do more about livestock integration. Strengthen crop-livestock re-programming
  + Different livestock species
* Strengthening private sector linkages
* Small scale mechanization (labour saving) solutions for small scale farmers? – Irrigation for high value crops, water harvesting, feed processing etc.
* Climate risk management - crop insurance?

*Themes*

1. Productivity enhancement and nutrition cross linkages - for both crops and livestock
2. Markets and institutions for SI
3. Environment and climate change??
4. Capacity development for SI